

**INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES**

Submitted by:

SCOTT A. MCBAIN  
Delphi Technologies, Inc.,

Reg. No. 37181

Atty. Docket No.

DP-308152

Serial No.

Applicant

Thomas W. Nehl et al

Filing Date

Herewith

Group

**U.S. PATENT DOCUMENTS**

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	3,100,724	08-14-1964	Rocheville			
	3,993,411	11-23-1976	Babcock et al			
	4,263,335	04-21-1981	Wagner et al			
	4,606,495	08-19-1986	Stewart, Jr., et al			
	4,891,275	01-02-1990	Knoll			
	4,939,022	07-03-1990	Palanisamy			
	5,187,021	02-16-1993	Vydra et al			
	5,271,965	12-21-1993	Browning			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation Yes   No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**Van Steenkiste, et al; *Kinetic Spray Coatings*; in Surface & Coatings Technology III; 1999; pp.62-71Liu, et al; *Recent Development in the Fabrication of Metal Matrix-Particulate Composites Using Powder Metallurgy Techniques*; in Journal of Material Science 29; 1994; pp. 1999-2007; National University of Singapore, JapanPapyrin; *The Cold Gas-Dynamic Spraying Method a New Method for Coatings Deposition Promises a New Generation of Technologies*; Novosibirsk, Russia.

McCune, al; Characterization of Copper and Steel Coatings Made by the Cold Gas-Dynamic Spray Method; National Thermal Spray Conference.

Examiner

Date Considered

**\*Examiner: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.**

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	5,302,414	04-12-1994	Alknimor et al			
	5,340,015	08-23-1994	Hira et al			
	5,395,679	03-07-1995	Myers et al			
	5,424,101	06-13-1995	Atkins et al			
	5,464,146	11-07-1995	Zalvzec et al			
	5,476,725	12-19-1995	Papich et al			
	5,527,627	06-18-1996	Lautzenhisner et al			
	5,593,740	01-14-1997	Strumbon et al			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation Yes   No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Alkhimov, et al; *A Method of "Cold" Gas-Dynamic Deposition*; Sov. Phys. Dokl. 36(12; December 1990; pp.1047-1049

Dykuizen, et al; *Impact of High Velocity Cold Spray Particles*; in Journal of Thermal Spray Technology 8(4); 1999; pp.559-564

Swartz, et al; *Thermal Resistance At Interfaces*; Appl. Phys. Lett., Vol. 51, No 26,28; December 1987; pp. 2201-2202.

Davis, et al; *Thermal Conductivity of Metal-Matrix Composites*; J.Appl. Phys. 77 (10), May 15, 1995; pp. 4494-4960.

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Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	5,795,626	08-18-1998	Grabel et al			
	5,854,966	12-29-1998	Kampe et al			
	5,875,626	03-02-1999	Singer et al			
5,894,054		04-13-1999	Poruchuri et al			
	5,907,761	05-25-1999	Tohma et al			
	5,952,056	09-14-1999	Jordan et al			
	5,989,310	11-23-1999	Chu et al			
	6,051,045	04-18-2000	Narula et al			
	6,051,277	04-18-2000	Claussen et al			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation Yes   No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Stoner et al; *Measurements of the Kapitza Conductance between Diamond and Several Metals*; Physical Review Letters, Volume 68, Number 10; March 9, 1992; pp. 1563-1566.

Stoner et al; *Kapitza conductance and heat flow between solids at temperatures from 50 to 300K*; Physical Review B, Volume 48, Number 22, December 1, 1993-II; pp. 16374;16387.

Johnson et al; *Diamond/Al metal matrix composites formed by the pressureless metal infiltration process*; J. Mater. Res., Vol. 8, No. 5, May 1993; pp. 11691173.

Rajan et al; *Reinforcement coatings and interfaces in Aluminium Metal Matrix Composites*; pp. 3491-3503.

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Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
	6,033,622	03-07-2000	Maruyama			
	6,074,737	06-13-2000	Jordan et al			
6,129,948		10-10-2000	Plummet et al			
	6,139,913	10-31-2000	Van Steenkiste et al			
	6,283,386	09-04-2001	Van Steenkiste et al			
	5,308,463	05-03-1994	Hoffmann et al			
	5,648,123	07-15-1997	Kuhn et al			
	5,965,193	10-12-1999	Ning et al			

**FOREIGN PATENT DOCUMENTS**

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|LEC Manufacturing and Engineering Capabilities; Lanxide Electronic Components, Inc.

|Dykhuisen et al; *Gas Dynamic Principles of Cold Spray*; Journal of Thermal Spray Technology; 06-98; pp. 205-212.|McCune et al; *An Exploration of the Cold Gas-Dynamic Spray Method For Several Materials Systems*;|Ibrahim et al; *Particulate Reinforced Metal Matrix Composites – A Review*; Journal of Materials Science 26; pp. 1137-1156.

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